

**ABSTRACT OF DISCLOSURE**

The optical waveguide includes an optical waveguide layer, and a filter element including an ultraviolet curing liquid crystal layer disposed in a position which divides the optical waveguide layer in a waveguide direction. The  
5 ultraviolet curing liquid crystal layer having a twisted structure in which a helical pitch after curing reflects light of a predetermined wavelength.

09392264 090999  
066060 4922660